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| 1. Record Nr.           | UNINA990003073780403321  |
| Titolo                  | The European Community / S.F. Goodman  |
| Pubbl/distr/stampa      | Basingstoke ; London : Macmillan, 1990   |
| ISBN                    | 0-333-51810-1  |
| Descrizione fisica      | XVI, 187 p. ; 21 cm  |
| Collana                 | Economics Today  |
| Disciplina              | F/1.402<br>O/1.2430  |
| Locazione               | SE   |
| Collocazione            | S<br>O/1.2430 GOO/N.A.   |
| Lingua di pubblicazione | Italiano   |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| 2. Record Nr.           | UNISA996199396703316   |
| Titolo                  | Metallomesogens : synthesis, properties, and applications // edited by Jose Luis Serrano |
| Pubbl/distr/stampa      | Weinheim, [Germany] : , : VCH, , 1996<br>©1996   |
| ISBN                    | 1-281-84270-2<br>9786611842703<br>3-527-61509-1<br>3-527-61508-3                         |
| Descrizione fisica      | 1 online resource (520 p.)   |
| Disciplina              | 669.95   |
| Soggetti                | Metallomesogens  |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Note generali           | Description based upon print version of record.  |

Nota di bibliografia

Includes bibliographical references at the end of each chapters and index.

Nota di contenuto

Metallomesogens; Biography; Preface; Contents; List of Contributors; 1 Introduction; 1.1 General Concepts: Metallomesogens; 1.2 General Concepts: Liquid Crystals; 1.3 Mesophases; 1.3.1 Calamitic Mesophases; 1.3.2 Discotic Mesophases [30]; 1.3.3 Lyotropic Mesophases; References; Part A Materials; 2 Low Molecular Weight Lyotropic Metallomesogens; 2.1 Micellar Lyotropic Metallomesogens; 2.2 Chromonic Metallomesogens; 2.3 Summary; References; 3 Low Molecular Weight Calamitic Metallomesogens; 3.1 Metal-Organic Liquid Crystals; 3.1.1 Metal-Organic Liquid Crystals with Monodentate Ligands 3.1.1.1 Nitrile Ligands 3.1.1.2 Pyridine Ligands; 3.1.1.3 Amine Ligands; 3.1.1.4 Thiolate Ligands; 3.1.1.5 Summary; 3.1.2 Metal-Organic Liquid Crystals with Bidentate Ligands; 3.1.2.1 2-Substituted Pyrrole Derivatives; 3.1.2.2 Salicylideneamine Derivatives; 3.1.2.3 Enaminoketone Derivatives; 3.1.2.4 Aroylhydrazine Derivatives; 3.1.2.5 -P-Diketone Derivatives; 3.1.2.6 Salicylaldehyde Derivatives; 3.1.2.7 Alkylcarboxylate Derivatives; 3.1.2.8 Monothio--Diketone Derivatives; 3.1.2.9 Dithiolene Derivatives; 3.1.2.10 Dithiobenzoate Derivatives; 3.1.2.11 Dithiocarbamate Derivatives 3.1.2.12 Summary 3.1.3 Metal-Organic Liquid Crystals with Tetradentate Ligands; 3.1.3.1 Annelide Derivatives; 3.1.3.2 Porphyrin Derivatives; 3.1.3.3 Salicylidenediamine Derivatives; 3.1.3.4 2,2'-Bipyridine Derivatives; 3.1.3.5 1,10-Diaza-4,7,13,16-Tetrathiacyclooctadecane Derivatives; 3.1.3.6 Summary; 3.2 Organometallic Liquid Crystals; 3.2.1 Organometallic Liquid Crystals with Monodentate Ligands; 3.2.1.1 Alkynyl Derivatives; 3.2.1.2 Isonitrile Derivatives; 3.2.1.3 Summary; 3.2.2 Organometallic Liquid Crystals with Bidentate Ligands; 3.2.2.1 Dinuclear ortho-Palladated Complexes 3.2.2.2 Mononuclear ortho-Metallated Complexes 3.2.2.3 Summary; 3.2.3 Organometallic Liquid Crystals with Meta- Bonds; 3.2.3.1 Metallocene Derivatives; 3.2.3.2 Butadiene Complexes; 3.2.3.3 Summary; References; 4 Low Molecular Weight Discotic Metallomesogens; 4.1 Mononuclear Metal Complexes with Bidentate Ligands; 4.1.1 -Diketonate Complexes; 4.1.1.1 Complexes with one Aliphatic Ring at each Phenyl Ring; 4.1.1.2 Complexes with two or more Aliphatic Chains at each Phenyl Ring; 4.1.2 Dithiolene Complexes; 4.1.3 1,2-Dioxime Complexes; 4.2 Dinuclear Metal Complexes with Bidentate Ligands 4.2.1 Carboxylate Complexes 4.2.2 Dithiocarboxylate Complexes; 4.2.3 Benzalimine Complexes; 4.3 Metal Complexes with Tridentate Ligands; 4.3.1 1,4,7-Triazacyclononane Complexes; 4.3.2 Pyridinediyl-2,6-dimethanol Complexes; 4.3.3 1,3,5-Triketonate Complexes; 4.4 Mononuclear Metal Complexes with Tetradentate Ligands; 4.4.1 Phthalocyanine Complexes; 4.4.2 Porphyrin Complexes; 4.4.3 Tetraazaporphyrin Complexes; 4.4.4 Tetrapyrazinoporphyrazine Complexes; 4.4.5 1,4,8,11-Tetraazacyclotetradecane Complexes; 4.4.6 Bis(salicylidene)diimine Complexes; 4.4.7 P-Diketonate Schiff Base Complexes 4.4.8 Calixarene Complexes

Sommario/riassunto

Research on metal-containing liquid crystals is a rapidly expanding, multidisciplinary field with new materials continually being synthesized and novel applications being developed. 'Metallomesogens' is the first comprehensive survey of the field, introducing the reader to: \* materials design \* synthesis \* physical properties \* emerging applications Carefully selected references round off this well-organized compendium. It is an indispensable guide to experienced researchers in coordination and

organometallic chemistry as well as in liquid-crystal and materials science.

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